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Computer Science & IT (CS



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TEST SCHEDULE

BASIC LEVEL FULL SYLLABUS TEST -1 (GATE 2023) - REPORTS

OVERALL ANALYSIS COMPARISON REPORT ALL(65) CORRECT(44) INCORRECT(14) SKIPPED(7) Q. 51 (Have any Doubt? The maximum window size for data transmission using the selective repeat protocol with 21 – bit frame sequence numbers is A 2^{l-1} Your answer is Correct B 221-1 Solution: W_{ϵ} + $W_{r} \leq$ (Available sequence numbers) We know, $W_s + W_r \leq 2^{2l}$ or, $W_s = W_r = x \text{ (say)}$ $2W \le 2^{2l}$ Since, We have For max window size $W = W_{\text{max'}}$ we have $2W = 2^{2l}$ or $W = 2^{2l-1}$ Therefore option (b) is the answer. $2^{2l} - 1$ D 2^{21 - 2} QUESTION ANALYTICS П Q. 52 (Have any Doubt ? Let f(x, y) = xy + x'y'. Then which of the following is correct? A f(x+y,y) = f(xy,y) $B \quad f(xy, y) \cdot f(x + y, y) = f(x, y)$ Your option is Correct Your option is Correct c f(f(xy, y), f(x + y, y)) = f(x, y)f(xy, y) is dual of f(x + y, y)YOUR ANSWER - b,c CORRECT ANSWER - b,c STATUS -Solution: (b, c) Let check (a) first. LHS: f(x + y, y) = (x + y)y + (x + y)'y' $= xy + y + x'y' \equiv y + x'y'$ $= x' + y \text{ or } x \Rightarrow y$ RHS: $f(xy, y) = xy \cdot y + (xy)'y'$ = xy + (x' + y')y'= xy + x'y' + y'= xy + y' $= (y' + x) \text{ or } y \Rightarrow x$ Clearly $(x \Rightarrow y) \neq (y \Rightarrow x)$ so (a) is false. But (b) is true, as $f(x+y,y)\cdot f(xy,y)$ $\equiv (x \Longrightarrow y) \land (y \Longrightarrow x)$ $\equiv x \Leftrightarrow y \text{ or } \underline{x \in y}$ JL f(x, y)









